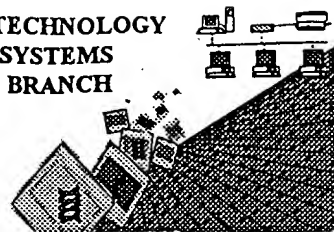


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/892,613A
Source: OIPF
Date Processed by STIC: 3/13/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



Does Not Comply OIPE
Corrected Diskette Needed

RAW SEQUENCE LISTING

DATE: 03/13/2002

PATENT APPLICATION: US/09/892,613A

TIME: 11:53:34

Input Set : A:\09892613.ST25.txt

Output Set: N:\CRF3\03132002\I892613A.raw

3 <110> APPLICANT: Leung, Shawn Shui-on
5 <120> TITLE OF INVENTION: REDUCING IMMUNOGENICITIES OF IMMUNOGLOBULINS BY FRAMEWORK-PATCHING

7 <130> FILE REFERENCE: 655

9 <140> CURRENT APPLICATION NUMBER: US 09/892,613A

10 <141> CURRENT FILING DATE: 2001-06-27

12 <160> NUMBER OF SEQ ID NOS: 32

14 <170> SOFTWARE: PatentIn version 3.1

16 <210> SEQ ID NO: 1

17 <211> LENGTH: 369

18 <212> TYPE: DNA

19 <213> ORGANISM: Full length cDNA sequence

21 <400> SEQUENCE: 1

22 gaagtgcagc tgctggagtc tgggggaggc ttagtgcaic ctggagggtc cctgaggctc 60

24 tcctgtgcag cctctggatt ctcttcagc atctatgaca tgtcttgggt tcgccaggca 120

26 ccgggaaagg ggctggagtg ggtgcatac attagtagtg gtggtggtac cacctactat 180

28 ccagacactg tgaaggccg attcaccatc tccagagaca atgccaagaa ctccctgtac 240

30 ctgcaaatga acagtctgag ggtggaggac acagccttat attactgtgc aagacatagt 300

32 ggctacggta gtagctacgg ggttttggtt gcttactggg gccaaaggac tctggtcact 360

34 gtctcttca 369

37 <210> SEQ ID NO: 2

38 <211> LENGTH: 123

39 <212> TYPE: PRT

40 <213> ORGANISM: Full length amino acid sequence

42 <400> SEQUENCE: 2

44 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

45 1 5 10 15

48 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Phe Ser Ile Tyr

49 20 25 30

52 Asp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

53 35 40 45

56 Ala Tyr Ile Ser Ser Gly Gly Gly Thr Thr Tyr Tyr Pro Asp Thr Val

57 50 55 60

60 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr

61 65 70 75 80

64 Leu Gln Met Asn Ser Leu Arg Val Glu Asp Thr Ala Leu Tyr Tyr Cys

65 85 90 95

68 Ala Arg His Ser Gly Tyr Gly Ser Ser Tyr Gly Val Leu Phe Ala Tyr

69 100 105 110

72 Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser

73 115 120

76 <210> SEQ ID NO: 3

77 <211> LENGTH: 111

78 <212> TYPE: DNA

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

→ This belongs in 2237 explanation

invalid response - see error summary sheet, item 10 - must be "artificial sequence," "unknown," or scientific name (genus/species) only.

RAW SEQUENCE LISTING

DATE: 03/13/2002

PATENT APPLICATION: US/09/892,613A

TIME: 11:53:34

Input Set : A:\09892613.ST25.txt

Output Set: N:\CRF3\03132002\I892613A.raw

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79 <213> ORGANISM: N-terminal sense strand template DNA sequence
81 <400> SEQUENCE: 3
82 cctggagggt ccctgagget ctctgtgca gcctctggat tctccttcag tatctatgac 60
84 atgtcttggg ttgccaggc accgggaaag gggctggagt gggtcgcata c 111
87 <210> SEQ ID NO: 4
88 <211> LENGTH: 57
89 <212> TYPE: DNA
90 <213> ORGANISM: 5' Primer for N-template
92 <400> SEQUENCE: 4
93 gaagtgcagc tgctggagtc tgggggaggc ttagtgcagc ctggagggtc cctgagg 57
96 <210> SEQ ID NO: 5
97 <211> LENGTH: 48
98 <212> TYPE: DNA
99 <213> ORGANISM: 3' Primer for N-template
101 <400> SEQUENCE: 5
102 gtaggtggtt ccaccaccac tactaatgta tgcgaccac tccagccc 48
105 <210> SEQ ID NO: 6
106 <211> LENGTH: 132
107 <212> TYPE: DNA
108 <213> ORGANISM: C-terminal sense strand template DNA sequence
110 <400> SEQUENCE: 6
111 ttcaccatct ccagagacaa tgccaagaac tcctgtacc tgcaaatgaa cagtctgagg 60
113 gtggaggaca cagccttata ttactgtgca agacatagtg gctacggtag tagctacggg 120
115 gttttgtttg ct 132
118 <210> SEQ ID NO: 7
119 <211> LENGTH: 60
120 <212> TYPE: DNA
121 <213> ORGANISM: 5' Primer for C-template
123 <400> SEQUENCE: 7
124 ggtggtacca cctactatcc agacactgtg aagggccgat tcaccatctc cagagacaat 60
127 <210> SEQ ID NO: 8
128 <211> LENGTH: 57
129 <212> TYPE: DNA
130 <213> ORGANISM: 3' Primer for C-template
132 <400> SEQUENCE: 8
133 tgaagagaca gtgaccagag tcccttggcc ccagtaagca aacaaaaccc cgtagct 57
136 <210> SEQ ID NO: 9
137 <211> LENGTH: 321
138 <212> TYPE: DNA
139 <213> ORGANISM: Full length cDNA sequence
141 <400> SEQUENCE: 9
142 gatatccaga tgaccagtc tccatcctcc ctgtctgct ctgtgggaga cagagtcacc 60
144 attagttgca gggcaagtc ggacattagc aattatttaa actggtatca gcagaaacca 120
146 ggtaaggctc cgaaactcct gatctactac actagtatat tacactcagg agtcccatca 180
148 aggttcagtg gcagtgggtc tggaacagaa tttactctca ccattagctc cctgcagcca 240
150 gaagattttg ccaattactt ttgccaacag ggtaatacgc ttccgtggac gttcgggtga 300
152 ggcaccaagg tggaaatcaa a 321
155 <210> SEQ ID NO: 10
156 <211> LENGTH: 107

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RAW SEQUENCE LISTING

DATE: 03/13/2002

PATENT APPLICATION: US/09/892,613A

TIME: 11:53:34

Input Set : A:\09892613.ST25.txt

Output Set: N:\CRF3\03132002\I892613A.raw

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157 <212> TYPE: PRT
158 <213> ORGANISM: Full length amino acid sequence
160 <400> SEQUENCE: 10
162 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
163 1 5 10 15
166 Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asp Ile Ser Asn Tyr
167 20 25 30
170 Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
171 35 40 45
174 Tyr Tyr Thr Ser Ile Leu His Ser Gly Val Pro Ser Arg Phe Ser Gly
175 50 55 60
178 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
179 65 70 75 80
182 Glu Asp Phe Ala Thr Tyr Phe Cys Gln Gln Gly Asn Thr Leu Pro Trp
183 85 90 95
186 Thr Phe Gly Gly Thr Lys Val Glu Ile Lys
187 100 105
190 <210> SEQ ID NO: 11
191 <211> LENGTH: 108
192 <212> TYPE: DNA
193 <213> ORGANISM: N-terminal sense strand template DNA sequence
195 <400> SEQUENCE: 11
196 ctgtctgcct ctgtgggaga cagagtcacc attagtgtgca gggcaagtca ggacattagc 60
198 aattatttaa actggtatca gcagaaacca ggtaaggctc cgaaactc 108
201 <210> SEQ ID NO: 12
202 <211> LENGTH: 51
203 <212> TYPE: DNA
204 <213> ORGANISM: 5' Primer for N template
206 <400> SEQUENCE: 12
207 gatatccaga tgaccagtc tccatcctcc ctgtctgcct ctgtgggaga c 51
210 <210> SEQ ID NO: 13
211 <211> LENGTH: 40
212 <212> TYPE: DNA
213 <213> ORGANISM: 3' Primer for N-template
215 <400> SEQUENCE: 13
216 atatactagt gtagtagatc aggagtttgc gagccttacc 40
219 <210> SEQ ID NO: 14
220 <211> LENGTH: 120
221 <212> TYPE: DNA
222 <213> ORGANISM: C-terminal sense strand template DNA sequence
224 <400> SEQUENCE: 14
225 ccatcaaggt tcagtggcag tgggtctgga acagaattta ctctcaccat tagctccctg 60
227 cagccagaag attttgccac ttacttttgc caacagggta atacgcttcc gtggacgttc 120
230 <210> SEQ ID NO: 15
231 <211> LENGTH: 49
232 <212> TYPE: DNA
233 <213> ORGANISM: 5' Primer for C-template
235 <400> SEQUENCE: 15
236 ctacactagt atattacact caggagtccc atcaaggttc agtggcagt 49

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RAW SEQUENCE LISTING

DATE: 03/13/2002

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TIME: 11:53:34

Input Set : A:\09892613.ST25.txt

Output Set: N:\CRF3\03132002\I892613A.raw

239 <210> SEQ ID NO: 16
 240 <211> LENGTH: 48
 241 <212> TYPE: DNA
 242 <213> ORGANISM: 3' Primer for C-template
 244 <400> SEQUENCE: 16
 245 tttgatttcc accttggtgc ctccaccgaa cgtccacgga agcgtatt 48
 248 <210> SEQ ID NO: 17
 249 <211> LENGTH: 371
 250 <212> TYPE: DNA
 251 <213> ORGANISM: Full length cDNA sequence
 253 <400> SEQUENCE: 17
 254 caggtgcaac tgggtgcttc cggggctgag gtaaataagc ctggggcctc agtgaaggtc 60
 256 tcctgcaagg ctcttggtta cacatttacc agttacaata tgcactgggt acggcagcct 120
 258 cctggaaggg gcttggaatg gattggagct atttatccag gaaatgggtga tactagttac 180
 260 aatcagaaat tcaagggcaa ggccacattg actgcagaca aatcctccag cacagcctac 240
 262 atgcagctca gcagtctgac atctgaggac tctgcggtct attactgtgc aagatcgcac 300
 264 tacggtagta actacgtaga ctactttgac tactggggcc aaggcaccac tgttacagtc 360
 266 tcctctgatc a 371
 269 <210> SEQ ID NO: 18
 270 <211> LENGTH: 123
 271 <212> TYPE: PRT
 272 <213> ORGANISM: Full-length amino acid sequence
 274 <400> SEQUENCE: 18
 276 Gln Val Gln Leu Val Ala Ser Gly Ala Glu Val Asn Lys Pro Gly Ala
 277 1 5 10 15
 280 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
 281 20 25 30
 284 Asn Met His Trp Val Arg Gln Pro Pro Gly Arg Gly Leu Glu Trp Ile
 285 35 40 45
 288 Gly Ala Ile Tyr Pro Gly Asn Gly Asp Thr Ser Tyr Asn Gln Lys Phe
 289 50 55 60
 292 Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr
 293 65 70 75 80
 296 Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
 297 85 90 95
 300 Ala Arg Ser His Tyr Gly Ser Asn Tyr Val Asp Tyr Phe Asp Tyr Trp
 301 100 105 110
 304 Gly Gln Gly Thr Thr Val Thr Val Ser Ser Asp
 305 115 120
 308 <210> SEQ ID NO: 19
 309 <211> LENGTH: 114
 310 <212> TYPE: DNA
 311 <213> ORGANISM: N-terminal sense strand template DNA sequence
 313 <400> SEQUENCE: 19
 314 aataagcctg gggcctcagt gaaggtctcc tgcaaggctt ctggctacac atttaccagt 60
 316 tacaatatgc actgggtacg gcagcctcct ggaaggggccc tggaatggat tgga 114
 319 <210> SEQ ID NO: 20
 320 <211> LENGTH: 57
 321 <212> TYPE: DNA

RAW SEQUENCE LISTING

DATE: 03/13/2002

PATENT APPLICATION: US/09/892,613A

TIME: 11:53:34

Input Set : A:\09892613.ST25.txt

Output Set: N:\CRF3\03132002\I892613A.raw

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322 <213> ORGANISM: 5' Primer for N-template
324 <400> SEQUENCE: 20
325 caggtgcaac tgggtggcttc cgggggtgag gtaaataagc ctggggcctc agtgaag      57
328 <210> SEQ ID NO: 21
329 <211> LENGTH: 55
330 <212> TYPE: DNA
331 <213> ORGANISM: 3' Primer for N-template
333 <400> SEQUENCE: 21
334 tgtaactagt atcaccattt cctggataaa tagctccaat ccattccagg cccct      55
337 <210> SEQ ID NO: 22
338 <211> LENGTH: 126
339 <212> TYPE: DNA
340 <213> ORGANISM: C-terminal sense strand template DNA sequence
342 <400> SEQUENCE: 22
343 ttgactgcag acaaatcctc cagcacagcc tacatgcagc tcagcagtct gacatctgag      60
345 gactctgcgg tctattactg tgcaagatcg cactacggta gtaactacgt agactacttt      120
347 gactac      126
350 <210> SEQ ID NO: 23
351 <211> LENGTH: 61
352 <212> TYPE: DNA
353 <213> ORGANISM: 5' Primer for C-template
355 <400> SEQUENCE: 23
356 tgatactagt tacaatcaga aattcaaggg caaggccaca ttgactgcag acaaatcctc      60
358 c      61
361 <210> SEQ ID NO: 24
362 <211> LENGTH: 59
363 <212> TYPE: DNA
364 <213> ORGANISM: 3' Primer for C-template
366 <400> SEQUENCE: 24
367 tgatcagagg agactgtaac agtgggtgctt tggccccagt agtcaaagta gtctacgta      59
370 <210> SEQ ID NO: 25
371 <211> LENGTH: 321
372 <212> TYPE: DNA
373 <213> ORGANISM: Full-length cDNA sequence
375 <400> SEQUENCE: 25
376 gatattcaac tcacacagtc tccatcaagt ctttctgcat ctgtggggga cagagtcaca      60
378 attacttgca gggccagctc aagttttaagt ttcatgcact ggtaccagca gaagccagga      120
380 tcttccccca aaccttgat ttatgccaca tccaacctgg cttccggagt ccctagtcgc      180
382 ttcagtggca gtgggtctgg gaccgagttc actctcacia tcagcagttt gcagcctgaa      240
384 gatttcgcca cttatttctg ccatcagtgg agtagtaacc cgctcacgtt cggtgctggg      300
386 accaagctga ccgttctacg g      321
389 <210> SEQ ID NO: 26
390 <211> LENGTH: 107
391 <212> TYPE: PRT
392 <213> ORGANISM: Full-length amino acid sequence
394 <400> SEQUENCE: 26
396 Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
397 1      5      10      15
400 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Ser Ser Leu Ser Phe Met

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VERIFICATION SUMMARY

DATE: 03/13/2002

PATENT APPLICATION: US/09/892,613A

TIME: 11:53:35

Input Set : A:\09892613.ST25.txt

Output Set: N:\CRF3\03132002\I892613A.raw